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LETTER FROM THE EDITORS IN CHIEF

It is our pleasure to present the twelfth issue of PVLDB (Proceedings of the VLDB) Volume 16. While the first eleven issues covered research papers accepted to PVLDB and presented at the VLDB 2023 Conference, Issue 12 includes the keynote talks, panel, workshops, as well as peer-reviewed industrial papers, demonstrations, and tutorials, which were also part of the VLDB 2023 program.

The Industrial, Applications, and Experience Track of VLDB 2023 covers all aspects of innovative commercial or industrial-strength data management systems and solutions, including novel real-world applications of data management systems and experience in applying recent research advances to real-world problems. This year, we received 76 submissions, out of which we accepted 29 papers (38%) after a review by the Industrial Track Program Committee. Each paper received 3 reviews. The Industrial Program Chairs in coordination with the PC Chairs made the final decisions after calibration. The authors and reviewers were required to declare their COIs, and the paper assignments to reviewers were made to ensure that there were no COIs. For the final decision, PC Chairs stepped in to handle submissions that had COIs with the Industry Program Chairs. The accepted papers covered a wide range of real-world data management solutions including machine learning for systems, systems for machine learning, benchmarking, performance and resource optimization for cloud-based systems, governance, as well as novel database systems for real-world use cases.

The Demonstration Track of VLDB 2023 is an important platform for sharing and showcasing the latest advancements in the field of data management. The Demonstration Track received a healthy number of 134 submissions, which is similar to the previous years. After a rigorous review process, 53 (39.5%) of these submissions were accepted. Each demonstration proposal was reviewed by at least three reviewers; some had four. The Demonstration Program Committee responsible for the selection process was carefully assembled, taking into consideration gender and geographic diversity. This diverse committee ensured a comprehensive and inclusive evaluation of the demonstration proposals, contributing to the quality and variety of the accepted demonstrations.

The Tutorial Track of VLDB 2023 covers state-of-the-art research, development, and applications in data management or related areas, including interdisciplinary directions. This year, we received 25 submissions, out of which we accepted 9 short (1.5 hours) and 2 long (3 hours) tutorials, representing a 44% acceptance rate. All accepted tutorials were lecture-style, some of which have been recommended to include some demonstration components. The Tutorial Program Committee was assembled with gender and geographic diversity in mind. Each proposal was reviewed by at least two reviewers, and then by the Tutorial Program Chairs for a final decision, with coordination with the PC Chairs on how many proposals to accept. The accepted proposals cover a wide range of topics including deep learning, natural language interfaces, visualization, user-defined functions, modern networks for database systems, graph processing, data and AI model markets, collaborative data analytics, private information retrieval, and time series data mining.

VLDB 2023 received 15 workshop proposals. After reviewing the proposals and evaluating their merits based on their history, relevance of topics, and distinctiveness, we selected 13 high-quality workshops (5 full-day and 8 half-day). Similar to previous years, we erred on the side of accepting a larger number of workshops in order to ensure a good diversity of topics and allow new and revived workshops to establish themselves with sufficiently many submissions. The following workshops were accepted as full-day:

- ADMS: 14th International Workshop on Accelerating Analytics and Data Management Systems Using Modern Processor and Storage Architectures; Rajesh Bordawekar, Tirthankar Lahiri (August 28)
- CDMS: 2nd International Workshop on Composable Data Management Systems 2023; Satyanarayana R Valluri, Mohamed Zait (August 28)
- CloudDB: 1st Workshop on Cloud Databases; Sanjay Krishnan, Guoliang Li, Jiannan Wang, Kai Zeng (August 28)
- QDB: 12th International Workshop on Quality in Databases; Lisa Ehrlinger, Hazar Harmouch Ihab Ilyas Felix Naumann (August 28)
- TPCTC: 15th TPC Technology Conference on Performance Evaluation and Benchmarking 2023; Raghunath Nambiar, Meikel Poess (August 28)

The following are half-day workshops:

- AIDB: 5th Applied AI for Database Systems and Applications; Umar Farooq Minhas, Yingjun Wu (September 1)
- DEco: 2nd International Workshop on Data Ecosystem; Sandra Geisler, Maria-Esther Vidal Cinzia Cappiello (August 28)
- LLM: 1st Workshop on Databases and Large Language Models; Haixun Wang, Alon Halevy (September 1)
- Poly: 6th Polystore systems for heterogeneous data in multiple databases with privacy and security assurances, El Kindi Rezig, Vijay Gadepally Michael Stonebraker (September 1)

- QDSM: 1st International Workshop on Quantum Data Science and Management; Sven Groppe, Jiaheng Lu, Wolfgang Mauerer, Le Gruenwald (September 1)
- SDA: 1st Workshop on Serverless Data Analytics; Tamer Özsu, Xun Xue (September 1)
- SDM: 1st (Mini) Symposium on Data Markets; Jian Pei, Raul Castro Fernandez Xiaohui Yu (August 28)
- TaDA: 1st Workshop on Tabular Data Analysis; Vasilis Efthymiou, Sainyam Galhotra Oktie Hassanzadeh Ernesto Jiménez-Ruiz Kavitha Srinivas (September 1)

The PhD Workshop features 12 student presentations, a keynote by Wang-Chiew Tan (Facebook AI) and a panel on “Good Reviewing Habits.”

VLDB 2023 features three keynotes:

- Common Sense: the Dark Matter of Language and Intelligence: Dr. Yejin Choi, Wissner-Slivka Professor, Paul G. Allen School of Computer Science & Engineering, University of Washington
- Modernization of Databases in the Cloud Era: Building Databases that Run Like Legos: Dr. Feifei Li, Vice President, Alibaba Group; Director of Alibaba Cloud Database Product Business Unit; Director of DAMO Academy Database Lab
- On the Cusp: Computing Thrills and Perils and Professional Awakening: Prof. Dr. Natasa Milic-Frayling, CEO, Intact Digital Ltd.; Research Director, Arabic Language Technologies, Qatar Computing Research Institute, Doha, Qatar; Professor Emerita, University of Nottingham, UK

VLDB 2023 also features one panel on “Will LLMs Reshape, Supercharge, or Kill Data Science?” moderated by Dr. Alon Halevy (Meta Reality Labs), with panelists Yejin Choi (University of Washington and AI2), Avriella Floratou (Microsoft), Michael J. Franklin (University of Chicago), Natasha Noy (Google), and Haixun Wang (Instacart).

Besides the Best Paper and Demonstration awards announced at the VLDB 2023 Conference, three VLDB Endowment Awards are made:

- 2023 VLDB Early Career Research Contribution Award: Prof. Alvin Cheung (UC Berkeley)
- 2023 VLDB Women in Database Research Award: Dr. Xin Luna Dong (Meta)
- 2023 VLDB Test of Time Award: Yucheng Low (XetHub Inc.), Joseph Gonzalez (UC Berkeley), Aapo Kyrola (Missing Exponent Oy), Danny Bickson (Visual Layer), Carlos Guestrin (Stanford University), Joseph M. Hellerstein (UC Berkeley) for their VLDB 2012 paper “Distributed Graphlab: A Framework for Machine Learning in the Cloud”

In closing, we wish to collectively express our deep gratitude to all members of various program committees as well as our Proceedings Chairs who worked tirelessly in the past year to ensure the timely and smooth publication of PVLDB Volume 16.

Georgia Koutrika and Jun Yang
Editors-in-Chief of PVLDB Vol. 16
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Demonstration Program Chairs

Senjuti Basu Roy and Steven E. Whang
Tutorial Program Chairs

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Workshop Chairs

Vasilis Efthymiou and Xiao Hu
PhD Workshop Chairs

Xiaofang Zhou and Alan Fekete
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